



REPLACEMENT

Title: UDP-Glucose Modifiers
Applicant: Fader et al.
Application No.: 09/913064
Atty: L. Y. Beardell 302-992-4926

Figure 1A

SEQ ID NO: 25	***** ** *** ** ** ** *	MVASS-QKILVTGSAGFIGTHTVVQLNNGFNVSIIIDFNDNSVMEAVREVRVGSNLSQ
SEQ ID NO: 26		MSS---QTVLVTGGAGYIGSHTVLQLLGGFKAVVDNLDNSSETAIHRVKELAGK-FAG
SEQ ID NO: 14		MVSSSS-QHILVTGGAGFIGTHTVVQLLKAGFSVSIIDFNDNSVMEAVDRVRVGPPLLSQ
SEQ ID NO: 16		---AR-GSVLVTGGAGFIGTHTVLQLEKGYAVTAVDNFHNVSPEALDRVRHIVGPALSA
SEQ ID NO: 18		T-----
SEQ ID NO: 20		MVSALLRTILVTGGAGYIGSHTVLQLLQGFRRVVLDNLDNASELAAILRVRELAGEH-NAN
SEQ ID NO: 22		MRD---KTVLVTGGAGYIGSHTVLQLLGGFRAVVDNLDNLENSSEVAIHRVRELAGE-FGN
		1 60
SEQ ID NO: 25	* * * * *	NLEFTLGDLRNKDDLEKLFSSKSFDAVIHFAGLKAVGESVENPRRYFDNNLVGTINLYEV
SEQ ID NO: 26		NLSFHKLDLRDRDALEKIFSSTKFDSVIHFAGLKAVGESVQKPLLYYDNNLIGTIVLFEV
SEQ ID NO: 14		NLQFTQGDLRNRDDLEKLFSTTFDAVIHFAGLKAVAESVAKPRRYFDNVLVGTINLYEF
SEQ ID NO: 16		RLQFIFGDLTIKDDLEKVFAAKYDAVIHFAGLKAVAESVAHPMYNRRNNIVGTVNLYDV
SEQ ID NO: 18		-----RIDLRDKGALEMVFASTRFEAVIHFAGLKAVGESVQKPLLYYDNNVIGTINLLEV
SEQ ID NO: 20		NLDFRKVDLRDKQALDQIFSSQRFDAVIHFAGLKAVGESVQKPLLYYDNNLIGTITLLQV
SEQ ID NO: 22		NLSFHKVDLRDRAALDQIFSSTQFDAVIHFAGLKAVGESVQKPLLYYNNNLGTITLLEV
		61 120
SEQ ID NO: 25	* * * * *	MAKHCKKMWVFSSSATVYQPEKIPCVEDFKLQAMNPYGRTKLFLLEEIARDIQKAEPEWR
SEQ ID NO: 26		MAAHGCKKLVFSSSATVYGLPKEVPCTEEFPLSAANPYGRTKLIIIEICRDIYRAEQEWK
SEQ ID NO: 14		MAKYNCKKMWVFSSSATVYQPEKIPCEEDFKLQAMNPYGRTKLFLLEEIARDIQKAEPEWK
SEQ ID NO: 16		MKKHGCNKLVFSSSATVYQPEKVPCEEDSPLKALNPYGRTKLYLEEMLRDYQHANPEWR
SEQ ID NO: 18		MSVHGCKKLVFSSSAVYQSPKNSPTENFPLTPNNPYGKTKLVVEDICRDIYRSDPEWK
SEQ ID NO: 20		MAAHGCTKLVFSSSATVYQWPKEVPCTEESPLCAMNPYGRTKLVIEDMCRDLHASDPNWK
SEQ ID NO: 22		MAAHGCKKLVFSSSATVYQWPKEVPCTEEFPLSAMNPYGRTKLIIIEICRDVHCAEPDCK
		121 180

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Figure 1B

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*****  ***  **  *****  *  *****  *  *  *  *  *  *  *
SEQ ID NO:25  IVLLRYFNPVGAHESGKLGEDPRGIPNNLMPYIQQVAVGRLPELNVYGHDPTRDGSAIR
SEQ ID NO:26  IILLRYFNPVGAHPSGYIGEDPRGIPNNLMPFVQQVAVGRRRPALTTFGNDYTTSDGTGVR
SEQ ID NO:14  IILLRYFNPVGAHESGKLGEDPKGIPNNLMPYIQQVAVGRLTEINLVYCHDYPTRDGSAIR
SEQ ID NO:16  TILLRYFNPIGAHESGDI GEDPKGVNNLLPYIQQVAVARRPELNVYGHDPTRDGTAVR
SEQ ID NO:18  IILLRYFNPVGAHPSGYLGEDPRGIPNNLMPYVQQVAVGRRRPALTVLGNDYATRDGTGVR
SEQ ID NO:20  IILLRYFNPVGAHPSGYIGEDPCGIPNNLMPFVQQVAVGRRRPALTVYGTDYNTKDGTVR
SEQ ID NO:22  IILLRYFNPVGAHPSGYIGEDPRGIPNNLMPFVQQVAVGRRRPALTTFGNDYNTSDGTGVR
181
*****  ***  **  *****  *  *****  *  *  *  *  *  *  *
SEQ ID NO:25  DYIHVMDLADGHIAALRKLFTSEN-IGCTAYNLGTRGSSVLEMVAAFEKASGKKIALKL
SEQ ID NO:26  DYIHVVLDLADGHIAALRKL-NDPKIGCEVYNLGTGKTSVLEMVKAFEQASGKKIPLVM
SEQ ID NO:14  DYIHVMDLADGHIAALRKLFTTEN-IGCTAYNLGTRGTSVLEMVTAFEKASGKKIPVKL
SEQ ID NO:16  DYIHVVLDLADGHIAALEKLFPD-IGCVAYNLGTRGTTVLEMVSAFEKAYGKKIPVKM
SEQ ID NO:18  DYIHVVLDLADGHIAALQKLFENSS-IGCEAYNLGTRGTSVLEIVKAFEKASGKKIPLIF
SEQ ID NO:20  DYIHVVLDLADGHIAALRKLIEDSDRIGCEVYNLGTGKTSVLEMVAAFEKASGKKIPLVF
SEQ ID NO:22  DYIHVVLDLADGHIAALLKL--DEPNIGCEVYNLGTGKTSVLEMVRAFEMASGKKIPLVM
241
*****  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
SEQ ID NO:25  CPRRPGDATEVYASTAKAEKELGWKAKYGVVEEMCRDQWNWAKNNPWGYSG-----KP---
SEQ ID NO:26  AGRRPGDAEVVYASTNKAERELNWKAKYGIDEMCRDQWNWASKNPYGYGSEDSSN-----
SEQ ID NO:14  CPRRPGDATEVYASTERAELGWKANYGVVEEMCRDQWNWAKNNPWYAG-----KP---
SEQ ID NO:16  CPRRPGDSEQVYASTAKAEELGWRAKYGIEEMCRDQWNWAKNNPYGYCGNAAENKD-----
SEQ ID NO:18  GERRPGDAEILFSETTKAERELNWKAKYGIEEMCRDQWNWASKNPYGYGSPDSIKQNGHQ
SEQ ID NO:20  AGRRPGDAEIVYAQTAKAEKELGWKAKYGVVEEMCRDLNWNWASKNPYGYG-SPDSSN-----
SEQ ID NO:22  AGRRPGDAEIVYASTKKAERELNWKAKYGIDEMCRDQWNWASKNPYGYGD-QGSTD-----
301
*****  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
SEQ ID NO:25  CPRRPGDATEVYASTAKAEKELGWKAKYGVVEEMCRDQWNWAKNNPWGYSG-----KP---
SEQ ID NO:26  AGRRPGDAEVVYASTNKAERELNWKAKYGIDEMCRDQWNWASKNPYGYGSEDSSN-----
SEQ ID NO:14  CPRRPGDATEVYASTERAELGWKANYGVVEEMCRDQWNWAKNNPWYAG-----KP---
SEQ ID NO:16  CPRRPGDSEQVYASTAKAEELGWRAKYGIEEMCRDQWNWAKNNPYGYCGNAAENKD-----
SEQ ID NO:18  GERRPGDAEILFSETTKAERELNWKAKYGIEEMCRDQWNWASKNPYGYGSPDSIKQNGHQ
SEQ ID NO:20  AGRRPGDAEIVYAQTAKAEKELGWKAKYGVVEEMCRDLNWNWASKNPYGYG-SPDSSN-----
SEQ ID NO:22  AGRRPGDAEIVYASTKKAERELNWKAKYGIDEMCRDQWNWASKNPYGYGD-QGSTD-----
360
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Figure 1C

SEQ ID NO:25	-----	
SEQ ID NO:26	-----	
SEQ ID NO:14	-----	
SEQ ID NO:16	-----	
SEQ ID NO:18	TNGSADSSKQNGHRTNGSTDSPKRNHGHAYGSADSPKRNHCHCVFGSSDLKPNGNGHLR	
SEQ ID NO:20	-----	
SEQ ID NO:22	-----	
	361	418